



# X-BTRI3W12 IRC

Outdoor RGB Chasing LED Color Bar Washer  
with Infrared Remote Control



# High Power Outdoor Bar Washer, 12 RGB 3Watt LED Fixture User Manual

# SAFETY INSTRUCTIONS:

## CAUTION! READ BEFORE USE!



Please read the following Safety Notes carefully before working with the product. The Notes include important safety information about installation, usage, and maintenance.

- Always connect the product to a GFI (ground fault interrupter) circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning.
- Avoid direct eye exposure to the light source while the product is on.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.

- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor or outdoor use (IP65). Do not submerge the product.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Never connect the product to a dimmer.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.



The IP Code (or International Protection Rating) consists of the letters IP followed by two digits and an optional letter. As defined in international standard IEC 60529, it classifies the degrees of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in electrical enclosures.

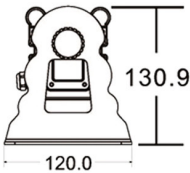
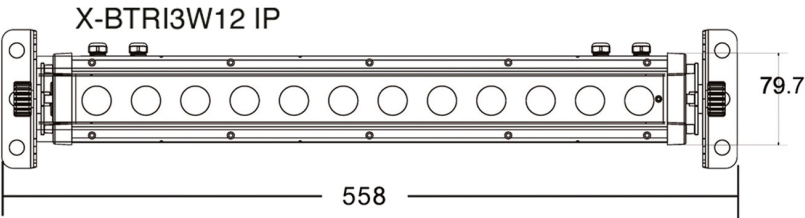
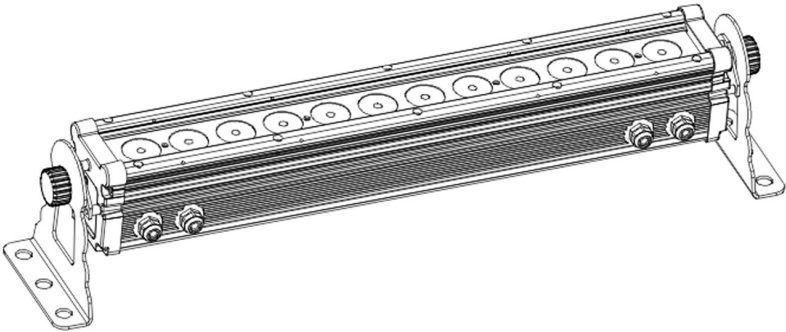
The first number following IP indicates rating against intrusion of Solids, while the second number rates fluid resistance. Any indoor light fixture, professional grade or otherwise, would have an IP20 rating, and is considered non-weather resistant.

**IP66 Rating;** Outdoor Fixture enclosure is protected from total dust ingress, and protected from high pressure water jets from any direction, and general weather.

# FEATURES:

**Product at a Glance**

Use on Dimmer	❌	Auto Programs	✅
Outdoor Use	✅	Auto-ranging Power Supply	✅
Sound Activated	❌	Replaceable Fuse	❌
DMX	✅	User Serviceable	❌
Master/Slave	✅	Duty Cycle	❌



Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

# TECHNICAL SPECIFICATIONS:

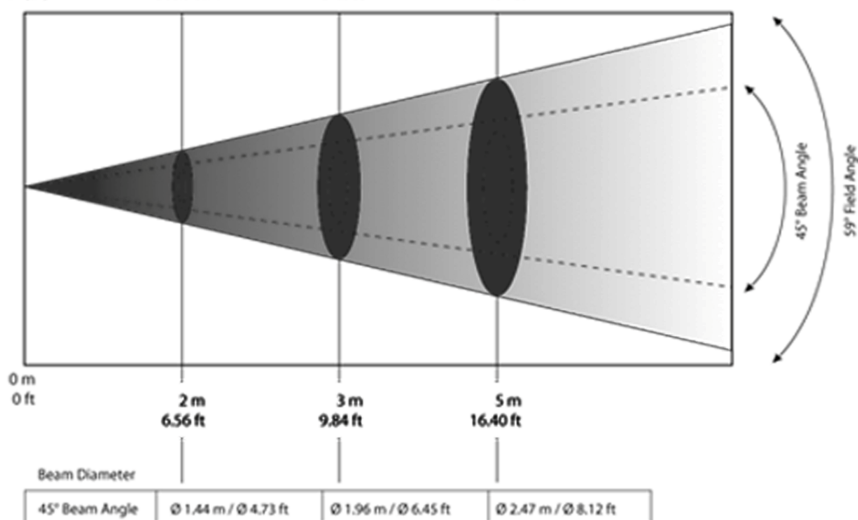
- Voltage: 100V~240V, 50Hz~60Hz
- LEDs: 12 Tri-Color RGB @3W ea.
- Power Consumption: 80W
- Weight: 7.3 lbs / 6.5Kgs
- Dimensions: 26" x 4.5" x 4.5" / 56cm x 8cm x 8cm
- DMX In and Out
- LCD Control Screen with 3 navigation buttons
- Beam Angle: 45 degrees

X-BTRI3W24 IP

Photometric Beam Angle Data

45° Beam Angle

R (R)	334.4 LUX	161.6 LUX	66.13 LUX
G (G)	480 LUX	229.6 LUX	93.06 LUX
B (B)	94.4 LUX	46 LUX	18.68 LUX
Full (24)	908.8 LUX	437.2 LUX	177.87 LUX



# POWER INSTRUCTIONS:

## POWER and DMX Connections

The fixture utilizes IP66 rated connectors to ensure proper operation under various outdoor weather conditions. When connecting to the unit from your source control, make sure your output connections are also in a secure and controlled environment.



### DMX-512 connection between fixtures

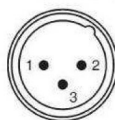
Based on standard 3-pin DMX connections, and using the DMX to IP connector adaptor cable, you can link control and/or slave your lights into a single, large array.

DMX - output  
XLR mounting-sockets (rear view):



- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)

DMX-input  
XLR mounting-plugs (rear view):



Power and DMX IN ports on  
fixture housing



IP and DMX IN connectors



DMX-IN to IP adapter cable

DMX and Power IN adapters allow for connecting to your DMX control and power source.

# POWER INSTRUCTIONS:

## LINKING / DAISY CHAIN

DMX and Power Out Ports found on the opposite end of the housing allow for connecting more than one fixture. For Power linking, you can connect up to 20 units with using 110volts, and up to 38 units using 240volts.

DMX Linking allows for up to 30 units in a chain without using a repeater or amplifier.

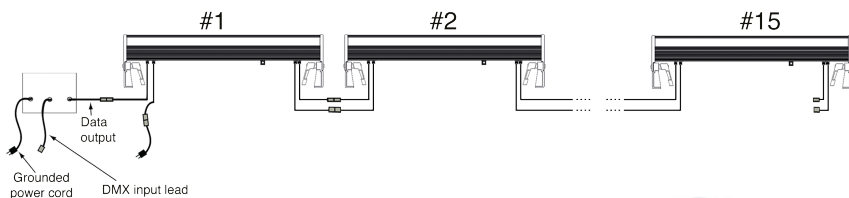
Power and DMX Out Ports



IP-to-IP DMX extension,  
or linking cable

## BUILDING A DMX CHAIN

Connect two more more fixtures with IP-DMX and Power Extension cables, and enable the fixtures in either DMX Channel or Slave mode. Below is an example of the fixture configurations:



## OTHER DMX DEVICES

DMX and Power Out adapters allow for connecting other DMX enabled fixtures and devices to be used in your DMX chain.



IP to DMX OUT adapter

# MENU / CONTROLS:

**SETUP MENU:** You can easily setup and control your 240 RGBA LED Bar from the on-board LCD screen. Using the MENU, SETUP, UP and DOWN buttons, you will find the following options to select and modify:



The Control Screen with MENU (A), UP (B), and DOWN (C) Navigation buttons. Found at end of fixture. If you do not find this panel at one end, look on other end.

**LED DISPLAY OPERATION** - These instructions will provide access to the setup and control of the DMX light.

## 1. PROGRAM MODE

The fixture comes with 7 built-in programs titled P.01 - P.07. While in these programs, the user can also set the operation and strobe speeds. The presets will run in loop until stopped.

### CHOOSING COLORS:

To select a Static Color, press the MENU (A) button for three seconds, repeat until display reads P.XX. Tap the UP (B) button to select P.01.

Tap the MENU (A) button to enter color select menu and tap B and C buttons to scroll through 9 color choices; 1.- Speed from 1.-R, 2.RG, 3.RG, 4.-G, 5.GB, 6.-B, 7.RB, 8.RB, and 9.RG. Using the B and C buttons can increase or decrease the brightness value.

### BUILT-IN PROGRAM SELECTION

To access the other 6 pre-saved action programs when display reads P.XX, tap the B and C buttons to choose from programs P.02 - P.07.

When in the selected program number, tapping the A button again allows you to enter the Program Operation Speed settings. You can scroll through 5.01 to the highest speed at 5.XX (1-99).

Tap the MENU (A) button again until display shows F.00, to control the Flash Speed from F.00 to F.99 by using the UP or DOWN (B or C) buttons.



# MENU OPTIONS CONT'D:

## 2. AUTO MODE

Press and hold the MENU or A button until the next Menu selection appears. Repeat until *AUT* displays on the Menu screen.

Tapping the A button again allows you to enter the Program Operation Speed settings. You can scroll through *S.01* to the highest speed at *S.FL* (1-99).

Tap the MENU (A) button again until display shows *F.00*, to control the Flash Speed from *F.00* to *F.99*.

Tap the MENU (A) button again until display shows *T.00*, to control the Fade Time from *T.00* to *T.99*.

## 3. DMX MODE

Press and hold the MENU or A button until the next Menu selection appears. Repeat until *XXX* displays on the Menu screen.

The DMX Channel can be selected by pressing the UP and DOWN (B and C) buttons and selecting *001 - 512*. By default, the fixture uses a 2 Channel Configuration.

Tap the A button to select which DMX Program Setup to utilize. Choose either *DP1* or *DP2*. (DMX Charts on page 10).

Note that this fixture has DMX Auto Detection, so regardless of any other Mode setting, if there is DMX signal present, it will automatically turn on it's DMX Mode. When DMX is no longer present, the fixture returns to previous Mode setting (infrared remote control also disabled when in DMX Mode).

## 4. SLAVE MODE

Press and hold the MENU or A button to navigate the Menu selection until *SLR* displays on the Menu screen. The fixture will then be slaved to which ever lead device is being controlled.

Repeat this step to exit Slave Mode. Each fixture acts as a Master when not in Slave Mode.

# DMX SETUP CHARTS

## 5. DMX SETUP MODE OPTIONS

These charts detail DMX setting options to access preset programs and channel control assignments.

### DMX Setup Mode 1 (DP1 / DP 1)

Channel	Value	Function
CH1	0-255	Red
CH2	0-255	Green
CH3	0-255	Blue
CH4	0-255	Master Dimmer
CH5	0-255	Flash

### DMX Setup Mode 2 (DP2 / DP 2)

CH1		CH2	CH3
DMX Value	Function	Speed	Flash
0	Off	Speed 0-255	Flash 0-255
1-50	Seven Color Dream		
51-101	Seven Color Change		
102-152	Red Color Dream		
153-203	Green Color Dream		
204-254	Blue Color Dream		

# MAINTAINENCE / CARE:

## 6. CARING FOR YOUR FIXTURE

The cleaning of internal and external housing can be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

# IR REMOTE CONTROL:

## 7. INFRARED REMOTE OPTIONS

Your fixture comes with an Infrared Remote Control. This requires aiming the remote forward and at the face of the light in order to send it your selections.

The remote has two sections of control, settings and colors. Each has the associated selection the light will enter upon pressing. They are described here:

BLACK OUT	All LEDs to On or Off state
AUTO	Auto/Demo Mode
SOUND	Sound Reactive Settings
STROBE	Flash On/Off and Freq. Settings
SPEED	Rate at which Colors Change
SENSITIVITY	Level of Sound Reactivity
%	Used for the Dimming Percentage
MANUAL	Sets Manual Color Mode
FADE   SNAP	Fades to Next Color, or Black
+ / -	Increase or Decrease Selection



As described earlier in this manual, **AUTO** and **SOUND** modes are selected and then navigated with the + or - buttons to make program selection.

Selecting **STROBE**, **SPEED**, or **SENSITIVITY** while the light is in **AUTO** or **SOUND** Modes will adjust those settings under the currently chosen Preset Program.

The **%** button is used to set the dimming level of the selected color, usually used with a **MANUAL** button sequence.

Pressing the **MANUAL** button and a sequence of numbers will select various settings. These are described on the next page.

**FADE/SNAP** allows the user to force a color change, but as a fade effect.

# IR REMOTE CONTROL:

On Buttons 0-9, the LEDs will display the associated colors when selected.

0	1	2	3	4	5	6	7	8	9
White	Red	Amber	Yellow1	Green	Cyan	Blue	Purple	Pink	Yellow2

## DIMMING MODE

By selecting MANUAL and then a Color Button labeled with either R, G, or B, you can create your own color mix by increasing or decreasing the value of that single color. These buttons are outlined on the remote in the form of an upside-down “T” shaped box. Pressing + or - will increase the brightness.

Press the button “MANUAL”, then press down “R”, “G” or “B” or “2” to enter dimming mode. Press “0”~“9” buttons in turn, enter a number value between 0-100. Press the “%” button again, to confirm the number is the percentage of the color. For example, press the “MANUAL” + “R” + “5” + “0” + “%” in turn, set the red LED brightness is on at 50%.

### NOTE

The numbered buttons are used as the number, like “2”, or a color like “Amber” allows the buttons to have two functions. Press the “MANUAL” button and next press a number button, it is only equivalent to it’s color, like “Amber”. If press “2” button in other time, is equivalent to press “2” numeric button. For example: Press the “MANUAL” + “2” + “5” + “0” + “%” in turn, set the Amber led brightness is 50% dimmed.

## 8. RESTORE FACTORY SETTINGS

Pressing BLACK OUT, then 9, 8, and 7 will reset the fixture to default factory settings.

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